

ABSTRACT

5 A gas generating composition includes ammonium nitrate as
an oxidizing agent, microcrystalline carbon powder as a reducing
agent, and a stabilizer for preventing decomposition of ammonium
nitrate. The amounts of the ammonium nitrate, the carbon powder,
and the stabilizer are 89 to 99wt%, 1 to 6wt%, and 0.2 to 6wt%,
respectively, with respect to the total amount of ammonium
nitrate, microcrystalline carbon and stabilizer. The amount of
10 microcrystalline carbon is preferably 1.5 to 6wt% with respect to
the amount of ammonium nitrate, and the amount of the stabilizer
is preferably 10 to 200wt% with respect to the amount of
microcrystalline carbon powder. The stability of present
composition is improved, especially, at high temperatures. The
15 composition has an appropriate burn rate, produces substantially
no carbon dioxide, and has a proper sensitivity. The present
composition is easy to handle and is inexpensive.